

solar wheat

- Gravity **12.3 BLG**
- ABV ---
- IBU **34**
- SRM **4**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.9 liter(s)**
- Total mash volume **17.2 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **12.9 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **75C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	2.5 kg (58.1%)	85 %	4
Grain	Pilzneński	1.5 kg (34.9%)	81 %	4
Grain	Wheat, Torrified	0.3 kg (7%)	79 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zythos	5 g	60 min	11 %
Boil	Citra	5 g	60 min	12 %
Aroma (end of boil)	Centennial	20 g	10 min	10.5 %
Aroma (end of boil)	Centennial	15 g	5 min	10.5 %
Aroma (end of boil)	Citra	20 g	5 min	12 %
Dry Hop	Centennial	5 g	2 day(s)	10.5 %
Dry Hop	Citra	5 g	2 day(s)	12 %
Dry Hop	Sorachi Ace	5 g	2 day(s)	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-05	Ale	Dry	11.5 g	Safale